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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/809,128	03/25/2004	Andrej Astachow	071308.0542	7682
31625	7590 10/03/2005	•	EXAMINER	
BAKER BOTTS L.L.P. PATENT DEPARTMENT			GORMAN, DARREN W	
98 SAN JACINTO BLVD., SUITE 1500			ART UNIT	PAPER NUMBER
AUSTIN, TX 78701-4039			3752	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		ω				
	Application No.	Applicant(s)				
Office Action Summan	10/809,128	ASTACHOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Darren W. Gorman	3752				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid will apply and will expire SIX (6) MONTHS fror te, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01.	September 2005.	•				
2a)⊠ This action is FINAL . 2b)☐ Thi	This action is FINAL . 2b) This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-11 and 13-22</u> is/are pending in t	he application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) \boxtimes Claim(s) <u>1,3-11 and 13-16</u> is/are allowed.						
6)⊠ Claim(s) <u>17-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	ier.					
10)⊠ The drawing(s) filed on <u>25 March 2004</u> is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.				
Applicant may not request that any objection to the	- · · ·					
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •					
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☒ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documer						
2. Certified copies of the priority documer						
3. Copies of the certified copies of the pri	· ·	ved in this National Stage				
application from the International Bures		and				
* See the attached detailed Office action for a lis	it of the certified copies not receiv	eu.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail [Date Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	11 V 134/				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 1. basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 17-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Kanesaka, USPN 4,674,688.

Kanesaka shows a fuel injection valve (see Figure 3), the injection valve comprising: a valve body (2, 3) having a valve body seat (32) and a valve needle (28) having a valve needle seat (31) and a valve needle guide portion (29) guided over a guide length (L) in the valve body within a stationary circular guiding surface for controlling a spray orifice (33), wherein the valve body includes a reservoir (no reference number) in the shape of an annular groove, the reservoir arranged coaxially to the guiding surface, wherein the reservoir is separated from the guiding surface of the valve body by a cylinder-shaped wall section (no reference number), wherein the reservoir has a depth of what appears to be about one half of the guide length (see Figure 3), wherein the reservoir has a thickness of what appears to be at least one fifth of the diameter of the guiding surface (see Figure 3), and wherein the cylinder-shaped wall section has a thickness that appears to be approximately equal to the reservoir thickness (see Figure 3).

With respect to the approximate dimensions recited in claims 20-22, such approximate

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dimensions are within standard ranges for these elements in a fuel injector and therefore it is inherent that such approximate dimensions are within the scope of the fuel injection valve shown by Kanesaka.

Allowable Subject Matter

3. Claims 1, 3-11 and 13-16 are allowed.

Response to Arguments

4. Applicant's remarks on page 6 of the response filed September 1, 2005, with respect to newly added claims 17-22 have been fully considered but they are not persuasive.

Applicant asserts that the cited prior art does not teach the limitation recited in claim 17, wherein the reservoir has a depth of about half the guide length. It is the Examiner's position that the depth of the reservoir as seen in Figure 3 of the prior art to Kanesaka is clearly shown to be "about half the guide length" of the needle guide portion of the valve body.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Darren W. Gorman whose telephone number is 571-272-4901.

The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dave Scherbel can be reached on 571-272-4919. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Darren W Gorman Examiner

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Des 9/20/05

September 20, 2005

David A. Scherbel Supervisory Patent Examiner

Group 3700